



**BUREAU
VERITAS**

TEST REPORT

Technical Report: (5217)339-0093

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December 18, 2017



Report Number
(5217)339-0093



**BUREAU
VERITAS**

TEST REPORT

TO : LEE GARMENT LTD
RM 903, 9/FL, SHUN FAT IND'L BLDG
17 WANG HOI RD
KLN BAY
KOWLOON,
HONG KONG

LAB NO.: (5217)339-0093
FORM NO.: /
DATE IN: Dec 05, 2017
DATE OUT: Dec 18, 2017
REVISION DATE: Jan 11, 2018
NO. OF WORKING DAYS: 9
PAGE 2 OF 6

ATTN : WILSON LEE

OVERALL RATING

PASS	_____
FAIL	_____
DATA	_____ X _____

Vendor:	/	Agent:	/
Fabric Supplier/Mill:	/	Factory/Manufacturer:	/
P.O. No.:	/	Style No.:	/
Sample Description:	100% POLYESTER SOLID DYED 185G/SM	Style Description:	/
Color:	BEIGE	Country of Origin:	/
Claimed Fabric Weight:	185G/SM	Claimed Fabric Count:	100% POLYESTER
Yarn Size:	/	Submitted Size:	/
Size Range:	/	FPU No.:	/
GPU No.:	/	End Use:	GARMENT
Finishing:	/	Age Group:	ADULT
SKU:	/		

Product Category	/
Test Requested	SEE TEST PROPERTY
Previous Report No.	(5217)289-0845

Submitted Fiber Content	/
Actual Fiber Content	/
Suggested Fiber Content	/
Submitted Care Instruction(s)	/
Client Expected Care Instruction	/
Suggested Care Instruction(s)	/



TEST PROPERTY	PASS	FAIL	DATA	COMMENTS
ELECTRICAL SURFACE RESISTIVITY OF FABRICS			X	SEE RESULT
ANTIBACTERIAL FINISHES ASSESSMENT			X	SEE RESULT
WATER REPELLENCY: SPRAY TEST			X	SEE RESULT
OIL REPELLENCY			X	SEE RESULT
AQUEOUS LIQUID REPELLENCY			X	SEE RESULT

BUREAU VERITAS HONG KONG LTD.

YVONNE LUK
DIVISION MANAGER - SOFTLINES

TEST RESULTS

<u>TEST PROPERTY</u>		<u>REQUIREMENTS</u>
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ELECTRICAL SURFACE RESISTIVITY OF FABRICS (AATCC 76, 20% RH, 45 DEGREE CELSIUS)

AFTER 100 WASHES RESISTIVITY	LOG R 13.4	R (OHMS PER SQUARE) 2.57x 10 ¹³	MAX. /
AFTER 125 WASHES RESISTIVITY	LOG R 13.7	R (OHMS PER SQUARE) 5.16x 10 ¹³	MAX. /

Method Summary

The anti-bacterial properties were evaluated using AATCC Test Method 100-2012 Assessment of Antibacterial Finishes on Textile Materials. The following organisms were used for this test: *Staphylococcus aureus* (ATCC strain no. 6538) and *Klebsiella pneumoniae* (ATCC strain no. 4352).

Test samples are inoculated with the test organisms. After incubation, the bacteria are eluted from the samples by shaking in known amounts of neutralizing solution. The number of bacteria present in this liquid is determined, and the percentage reduction by the treated specimen is calculated.

RESULTS:

Tested Component (A): Yellow Color of Fabric (After 100 Washes)

Sample		
Result	<i>Staphylococcus aureus</i>	<i>Klebsiella pneumoniae</i>
Percentage Reduction (%)	≥99.99	≥99.99
Comment	Antibacterial activity was effective.	

Remarks:

- Report percent reduction of bacteria by the specimen treatment against each test organism.
- Only ≥99.99% reduction on bacteria population is considered effective; nonetheless, the criterion for passing The test must be determined by the interested parties.
- Test information,

The no. of swatches used per container:	14 swatches
Method of sterilization:	Autoclave at 121°C for 15 mins
No. of bacteria per sample:	100000 cfu/ml of staphylococcus aureus 164000 cfu/ml of klebsiella pneumoniae
Dilution medium:	D/E Neutralizing Broth

TEST RESULTS

TEST PROPERTY

REQUIREMENTS

Method Summary

The anti-bacterial properties were evaluated using AATCC Test Method 100-2012 Assessment of Antibacterial Finishes on Textile Materials. The following organisms were used for this test: *Staphylococcus aureus* (ATCC strain no. 6538) and *Klebsiella pneumoniae* (ATCC strain no. 4352).

Test samples are inoculated with the test organisms. After incubation, the bacteria are eluted from the samples by shaking in known amounts of neutralizing solution. The number of bacteria present in this liquid is determined, and the percentage reduction by the treated specimen is calculated.

RESULTS:

Tested Component (A): Yellow Color of Fabric (After 125 Washes)

Sample		
Result	<i>Staphylococcus aureus</i>	<i>Klebsiella pneumoniae</i>
Percentage Reduction (%)	≥99.99	≥99.99
Comment	Antibacterial activity was effective.	

Remarks:

- Report percent reduction of bacteria by the specimen treatment against each test organism.
- Only ≥99.99% reduction on bacteria population is considered effective; nonetheless, the criterion for passing The test must be determined by the interested parties.
- Test information,
 - The no. of swatches used per container: 6 swatches
 - Method of sterilization: Autoclave at 121°C for 15 mins
 - No. of bacteria per sample: 100000 cfu/ml of staphylococcus aureus
100000 cfu/ml of klebsiella pneumoniae
 - Dilution medium: D/E Neutralizing Broth

TEST RESULTS

TEST PROPERTY

REQUIREMENTS

WATER REPELLENCY: SPRAY TEST (AATCC 22-14)

AFTER 100 WASHES (RATING)	95.0, 95.0, 95.0	MIN. GRADE /
AFTER 125 WASHES (RATING)	85.0, 85.0, 85.0	MIN. GRADE /

SPRAY RATING:

- 100 - NO STICKING OR WETTING OF UPPER SURFACE
- 90 - SLIGHT RANDOM STICKING OR WETTING OF UPPER SURFACE
- 80 - WETTING OF UPPER SURFACE AT SPRAY POINTS
- 70 - PARTIAL WETTING OF WHOLE OF UPPER SURFACE
- 50 - COMPLETE WETTING OF WHOLE OF UPPER SURFACE
- 0 - COMPLETE WETTING OF WHOLE UPPER AND LOWER SURFACE

OIL REPELLENCY (AATCC 118-13)

AFTER 100 WASHES	5.0	MIN. GRADE /
AFTER 125 WASHES	2.0	MIN. GRADE /

AQUEOUS LIQUID REPELLENCY (AATCC 193)

AFTER 100 WASHES	8.0	MIN. GRADE /
AFTER 125 WASHES	7.5	MIN. GRADE /

AATCC AQUEOUS SOLUTION REPELLENCY GRADE NUMBER

COMPOSITION

0	NONE (FAILS 98% WATER)
1	98:2/WATER:ISOPROPYL ALCOHOL (VOL:VOL)
2	95:5/WATER:ISOPROPYL ALCOHOL (VOL:VOL)
3	90:10/WATER:ISOPROPYL ALCOHOL (VOL:VOL)
4	80:20/WATER:ISOPROPYL ALCOHOL (VOL:VOL)
5	70:30/WATER:ISOPROPYL ALCOHOL (VOL:VOL)
6	60:40/WATER:ISOPROPYL ALCOHOL (VOL:VOL)
7	50:50/WATER:ISOPROPYL ALCOHOL (VOL:VOL)
8	40:60/WATER:ISOPROPYL ALCOHOL (VOL:VOL)